

Product datasheet for **RG205955**

ATG4C (NM_178221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG4C (NM_178221) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATG4C
Synonyms:	APG4-C; APG4C; AUTL1; AUTL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205955 representing NM_178221
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGCTACAGGAACAGATGAAGTTGACAAGCTAAAAACCAATTTATATCTGCTTGAACAACATGA
 AATATAGTTGGGTGTTGAAAACAAGACGTATTTTAGTAGAAATTCCTCTGTATTATTGCTTGGAAAATG
 TTACCATTTTAAATATGAAGATGAAGATAAACGTTACCTGCAGAGTCGGGATGTACAATAGAGGATCAC
 GTAATTGCAGGAAATGTAGAAGAATTCGTAAGATTTTCTTTCTAGAATATGGCTGACCTACAGGGAAG
 AATTCCTCAAATAGAAGGCTCAGCTTTGACAACAGACTGTGGTGGGCTGCACATTGAGAAGTGGCC
 GATGCTCTGGCTCAAGGACTCACTACACTTTCTTGGTAGAGCTTGGACCTGGCTGATGCTTTGAAT
 ATTGAAAATTCAGACTCTGAATCATGGACTTCCCACACTGTCAAAAAATTTACTGCATCATTGAAGCAT
 CACTTTCAGGGGAAAGAGAATTCAAAACCCAACAATTTCTCTGAAGGAAACAATTGGGAAATTTCTGA
 TGATCATGAAATGCGAAATGAAGTTTATCATAGGAAAATCATCTCTTGGTTTGGTGATCCCCCTTGGCT
 CTTTTTGGCTTACATCAACTAATAGAATATGGAAGAAGTCTGGGAAAAAGCAGGAGATTGGTATGGAC
 CAGCTGTGGTTGCTCACATTTTAAAGAAAAGCAGTTGAAGAAGCAAGGCATCCTGATTTACAAGGAATAAC
 TATTTATGTTGCACAAGATTGTACAGTTTACAATTCTGATGTAATTGATAAACAGAGTGCTTCCATGACT
 TCTGATAATGCAGATGACAAAGCTGTTATTATTCTAGTTCCTGTTAGACTTGGTGAGAAAGAACCAACA
 CCGACTACTTAGAATTTGTGAAGGATTTTAAAGCCTGGAATATTGTGTGGGATTTATTGGTGGCAAACC
 TAAACAGTCATATTACTTTGCTGGATTTCAAGATGACAGTTTGATTTACATGGATCCTCATTACTGCCAA
 TCTTTTGTAGATGTCAGCATAAAGGATTTCCCTCTTGAGACATTCCTGCTGAAAATGTTTCAAGGAGC
 CTTTTCGAAAAATGGATCCAGCTGACAATAGGATTTTCTGAGACATTCCTGCTGAAAATGTTTCAAGGAGC
 TTCTGAAGAAAATCAACAAGATGCTGAAAATTTCTTCTAAGGAGAAAATATCCCTTATTACTTTTGAAT
 GGTCAATCCAGAGACTATGATTTTACATCTACTACAACCAATGAAGAAGACCTTTTTTTCAGAGGATGAAA
 AGAAAACAATTAAGGATTTAGCACGGAAGAGTTGTCTTGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205955 representing NM_178221
 Red=Cloning site Green=Tags(s)

MEATGTDEVDKLTKEFISAWNNMKYSWVLTKEFYFSRNSPVLLLKGCYHFKYEDEDKTLPAESGCTIEDH
 VIAGNVEEFRKDFISRIWLTYYREFFQIEGSLTTDCGWGCTLRGTGQMLLAQGLILHFLGRAWTWPDALN
 IENSDSESWSHTVKKFTASFEASLSGEREFKPTISLKETIGKYSDDHEMRNEVYHRKIIISWFGDSPLA
 LFGLHQLIEYGGKSGKKAGDWYGPVVAHILRKAVEEARHPDLQGITIYVAQDCTVYNSDVIDKQASMT
 SDNADDKAVIILVPVRLGGERTNTDYLEFVKGILSLEYCVGIIGGKPKQSYFFAGFQDDSLIYMDPHYCQ
 SFVDVSIKDFPLETFHCPSPKMSFRKMDPSCTIGFYCRNVQDFKRASEEITKMLKFSSEKEYPLFTFVN
 GHSRDYDFTSTTTNEEDLFSEDEKKQLKRFSTEEFVLL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178221

ORF Size: 1374 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_178221.2](#)

RefSeq Size: 1774 bp

RefSeq ORF: 1377 bp

Locus ID: 84938

UniProt ID: [Q96DT6](#)

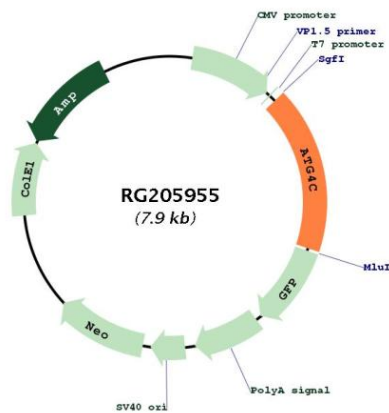
Cytogenetics: 1p31.3

Protein Families: Protease

Protein Pathways: Regulation of autophagy

Gene Summary: Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding the same protein, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205955